

SENSE AMPLIFIER AND METHOD FOR MAKING THE SAME

ABSTRACT OF THE DISCLOSURE

A Negative Bias Temperature Instability (NBTI) tolerant sense amplifier is provided. The sense amplifier includes an input stage having a pair of balanced isolation devices. Each of the balanced isolation devices has an input connected to receive a separate one of a pair of differential input signals. Each of the balanced isolation devices also has a gate that is connected to receive a common bias voltage. The sense amplifier further includes a sense stage connected to the input stage. The sense stage is configured to receive and amplify a higher signal to be provided by the pair of balanced isolation devices. The sense amplifier is also equipped to operate a low voltage levels.